Claims

1. A process for producing a thermoplastic elastomer composition comprising the step of feeding bulky rubber, a thermoplastic resin and an additive to an extruder, and then melt kneading the bulky rubber, the thermoplastic resin and the additive in the extruder, wherein the feeding amount of the bulky rubber is controlled by a method comprising the steps of:

(1) measuring the amount of the produced thermoplastic elastomer composition at an outlet of the extruder,

(2) calculating the feeding amount of the bulky rubber by deducting the feeding amount of the thermoplastic resin and the additive from the amount of the produced thermoplastic elastomer composition measured in the step (1), and

(3) controlling the feeding amount of the bulky rubber based upon the feeding amount of the bulky rubber calculated in the step (2).

2. The process for producing a thermoplastic elastomer composition according to Claim 1, wherein the bulky rubber is fed to an extruder through a rubber feeder combined with a screw extruder and a gear pump.

3. The process for producing a thermoplastic elastomer composition according to Claim 2, wherein the bulky rubber is fed to a gear pump under a constant feeding pressure.

4. The process for producing a thermoplastic elastomer composition according to Claim 1, wherein the bulky rubber is a bulky ethylene-α-olefin copolymer rubber, or a bulky ethylene-α-olefin-non-conjugated diene copolymer rubber.

5. The process for producing a thermoplastic elastomer composition according to Claim 1, where in the thermoplastic resin is an olefin polymer resin.